

**SIGNAL GENERATION POWER MANAGEMENT CONTROL SYSTEM FOR
PORTABLE COMMUNICATIONS DEVICE AND METHOD OF USING SAME**

ABSTRACT OF THE DISCLOSURE

5 A signal generation power management control system (100) for use in
a portable communications device includes a digital signal processor (DSP)
(101) for processing a digital source input and providing a digital processed bit
stream. A digital-to-analog converter (DAC) (103) is used for converting the
digital processed bit stream to provide an analog signal. A power management
10 controller (115) within the DSP (101) is then used for interpreting control
parameters of signal processing components used within the portable
communications device and dynamically adjusting the bias current of these
components based on minimal signal requirements of the analog signal.